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**NATIONAL STANDARD OF THE
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**Green mine construction specifications - Part 5: Chemical mine
(English Translation)**

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Foreword

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This document conforms to GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting is scheduled.

This document is Part 5 of GB/T 48132 "Code for Construction of Green Mines". GB/T 48132 has already published the following parts.

- Part 1: Coal Mines;
- Part 2: Onshore Oil and Gas Fields;
- Part 3: Ferrous Metal Mines;
- Part 4: Non-ferrous metal mines;
- Part 5: Chemical Mines;
- Part 6: Non-metallic Mines;
- Part 7: Gold Mine;
- Part 8: Sand and Gravel Mines;
- Part 9: Limestone Mines for Cement;

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the Ministry of Natural Resources of the People's Republic of China.

This document is under the jurisdiction of the National Technical Committee on Standardization of Natural Resources and Territorial Spatial Planning (SAC/TC 93).

Introduction

GB/T 48132, "Code for Green Mine Construction," guides the construction of green mines in my country in terms of resource extraction, comprehensive resource utilization, and green and low-carbon development.

The basic standards for carbon sequestration, ecological restoration, technological innovation and standardized management, and mining area environment aim to establish the foundation for green mine construction in various industries.

These requirements and incentives consist of 10 parts.

--Part 1: Coal Mines. The aim is to standardize the construction of green coal mines.

--Part 3: Ferrous Metal Mines. The aim is to standardize the green mining development of ferrous metal mines such as iron, manganese, chromium, vanadium, and titanium.

--Part 4: Non-ferrous Metal Mines. The aim is to regulate copper, lead, zinc, aluminum, magnesium (magnesia-smelting dolomite), nickel, tungsten, tin, molybdenum, antimony, and lithium mines.

Green mine construction for non-ferrous metal mines such as spodumene, lepidolite, silver, beryllium, strontium, zirconium, hafnium, tantalum, niobium, and germanium.

--Part 5: Chemical Mining. The purpose is to regulate lithium (brine lithium), phosphorus, sulfur, potassium salts, magnesium salts, boron, mirabilite, mineral salts, bromine, and natural...

Green mine construction for chemical mines such as alkali and nitrate mines.

--Part 6: Non-metallic Mines. The purpose is to regulate the mining of diamonds, graphite, quartz, kyanite, andalusite, wollastonite, sillimanite, etc.

Talc, asbestos (chrysotile), mica, feldspar, pyrophyllite, vermiculite, zeolite, gypsum, barite, calcite, magnesite, fluorite, and other minerals.

Stone, agate, marble, dolomite, quartzite, vein quartz, natural quartz sand, powdered quartz, high-purity quartz, kaolin, ceramic clay, iron Alumina, granite, refractory clay, bentonite, diatomite, sepiolite clay, attapulgite clay, illite clay, peridotite, pyroxene Green mine construction for non-metallic minerals such as greenstone, basalt, and perlite.

--Part 7: Gold Mines. The aim is to standardize the green mining practices of gold mines.

--Part 8: Sand and Gravel Mines. The aim is to standardize the green mining construction of sand, gravel, and clay mines for construction.

--Part 9: Limestone Mines for Cement. The aim is to standardize the green mine construction of limestone mines for cement.

--Part 10: Geothermal and Mineral Water Mines. The purpose is to standardize the green mining construction of geothermal and mineral water mines.

Green Mine Construction Standards Part 5: Chemical Mines

1 Scope

This document outlines the basic principles and requirements for green mine construction in the chemical industry, as well as resource extraction, comprehensive resource utilization, and green and low-carbon development.

Requirements regarding carbon emissions, ecological restoration, technological innovation and standardized management, and the mining area environment.

Green mine construction for the expansion and production of mines.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 2589 General Rules for Calculating Comprehensive Energy Consumption GB 2894 Safety Colors and Safety Signs GB 3838 Surface Water Environmental Quality Standard GB 8978 Integrated Wastewater Discharge Standard GB 12348 Emission Standard for Environmental Noise at the Boundary of Industrial Enterprises GB/T 13306 Nameplates GB/T 14161 Mine Safety Signs GB/T 14848 Groundwater Quality Standard GB 16297 Integrated Emission Standard for Air Pollutants GB 16423 Safety Regulations for Metal and Non-metal Mines GB 18484 Standard for Pollution Control of Hazardous Waste Incineration GB 18597 Standard for Pollution Control of Hazardous Waste Storage GB 18598 Standard for Pollution Control of Hazardous Waste Landfill GB 18599 Standard for Pollution Control of General Industrial Solid Waste Storage and Landfill GB 31573 Emission Standard for Pollutants from Inorganic Chemical Industry GB 36600 Soil Environmental Quality Standard for Risk Control of Soil Pollution in Construction Land (Trial) GB/T 42249 Technical Indicators and Calculation Methods for Comprehensive Utilization of Mineral Resources GB/T 43935 Technical Specification for Monitoring and Evaluation of Mine Land Reclamation and Ecological Restoration GB/T 44823 General Rules for Green Mine Evaluation GB 50187 Standard for General Layout Design of Industrial Enterprises GB 50863 Code for Design of Tailings Facilities GB 51016 Technical Specification for Slope Engineering in Non-Coal Open-Pit Mines GB/T 51450 Technical Standard for Backfilling Engineering in Metal and Non-metal Mines GB J 22 Code for Design of Roads in Factories and Mines